

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P293472

Luminaire Tested: **24GR-LD5-34-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-A-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3637.0 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

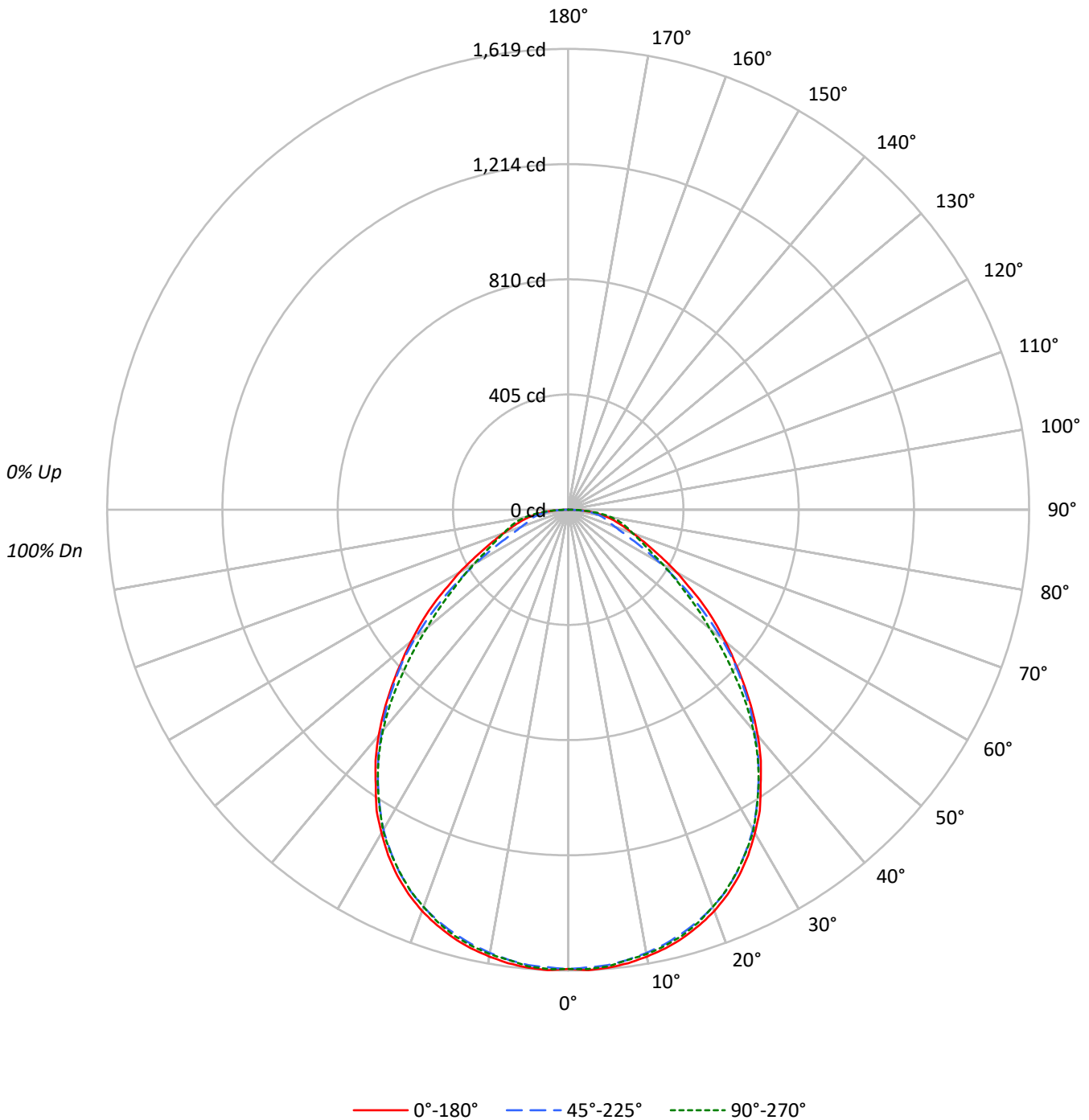
Input Watts (W): 23.529
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2171	2171	2171
5°	2182	2170	2175
10°	2178	2160	2166
15°	2170	2148	2157
20°	2149	2127	2126
25°	2107	2085	2083
30°	2037	2016	2021
35°	1935	1913	1916
40°	1820	1788	1777
45°	1668	1645	1580
50°	1508	1467	1356
55°	1354	1232	1169
60°	1185	992	1028
65°	1034	780	946
70°	946	681	946
75°	946	724	1043
80°	1027	853	1189
85°	1127	963	1275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	4.2
10°-20°	436.1	12.0
20°-30°	646.6	17.8
30°-40°	729.5	20.1
40°-50°	660.7	18.2
50°-60°	476.7	13.1
60°-70°	284.6	7.8
70°-80°	175.9	4.8
80°-90°	74.1	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1235.5	34.0
0°-40°	1965.0	54.0
0°-60°	3102.4	85.3
0°-90°	3637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3637.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1615	1613	1606	1605	1610	153
15°	1558	1548	1542	1542	1548	439
25°	1419	1411	1404	1399	1403	652
35°	1178	1177	1165	1165	1166	737
45°	876	871	865	843	830	675
55°	577	559	525	500	498	515
65°	325	286	245	278	297	327
75°	182	158	139	174	201	194
85°	73	64	62	82	83	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613.7	1613.7	1613.7	1613.7	1613.7
2.5°	1619.3	1614.8	1609.2	1612.6	1615.4
5°	1615.4	1613.1	1606.4	1604.7	1610.3
7.5°	1607.0	1601.3	1595.2	1598.0	1595.7
10°	1594.0	1589.0	1581.1	1581.7	1585.6
12.5°	1578.3	1572.1	1563.7	1565.9	1569.3
15°	1557.5	1548.0	1541.8	1542.3	1548.5
17.5°	1531.1	1523.8	1515.9	1517.6	1520.4
20°	1500.8	1496.8	1485.6	1482.2	1485.0
22.5°	1462.6	1455.2	1449.1	1447.4	1447.9
25°	1419.3	1411.4	1404.1	1399.1	1403.0
27.5°	1368.7	1362.0	1352.4	1350.7	1354.1
30°	1311.4	1306.4	1297.9	1295.7	1300.7
32.5°	1253.0	1244.5	1232.7	1232.7	1233.9
35°	1178.2	1176.6	1164.8	1165.3	1166.4
37.5°	1110.8	1103.0	1096.2	1089.5	1092.8
40°	1036.1	1027.1	1018.1	1013.6	1011.9
42.5°	955.7	949.0	945.1	928.8	924.8
45°	876.5	870.9	864.7	843.4	830.4
47.5°	795.6	794.5	789.4	751.8	738.9
50°	720.3	718.6	700.7	660.8	647.8
52.5°	649.0	637.7	614.1	574.8	572.5
55°	577.0	559.1	525.3	499.5	498.4
57.5°	501.2	479.8	445.6	431.5	438.8
60°	440.5	407.9	368.6	370.3	382.1
62.5°	377.6	341.1	302.3	319.1	333.2
65°	324.8	286.0	245.0	278.1	297.2
67.5°	278.7	242.7	203.4	247.8	266.3
70°	240.5	211.3	173.1	219.7	240.5
72.5°	210.1	183.2	153.4	197.2	221.4
75°	182.0	157.9	139.3	173.6	200.6
77.5°	157.9	134.3	125.9	153.4	179.8
80°	132.6	111.3	110.1	133.7	153.4
82.5°	103.4	88.8	88.8	111.8	123.6
85°	73.0	64.1	62.4	81.5	82.6
87.5°	37.6	36.0	32.6	42.7	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)